

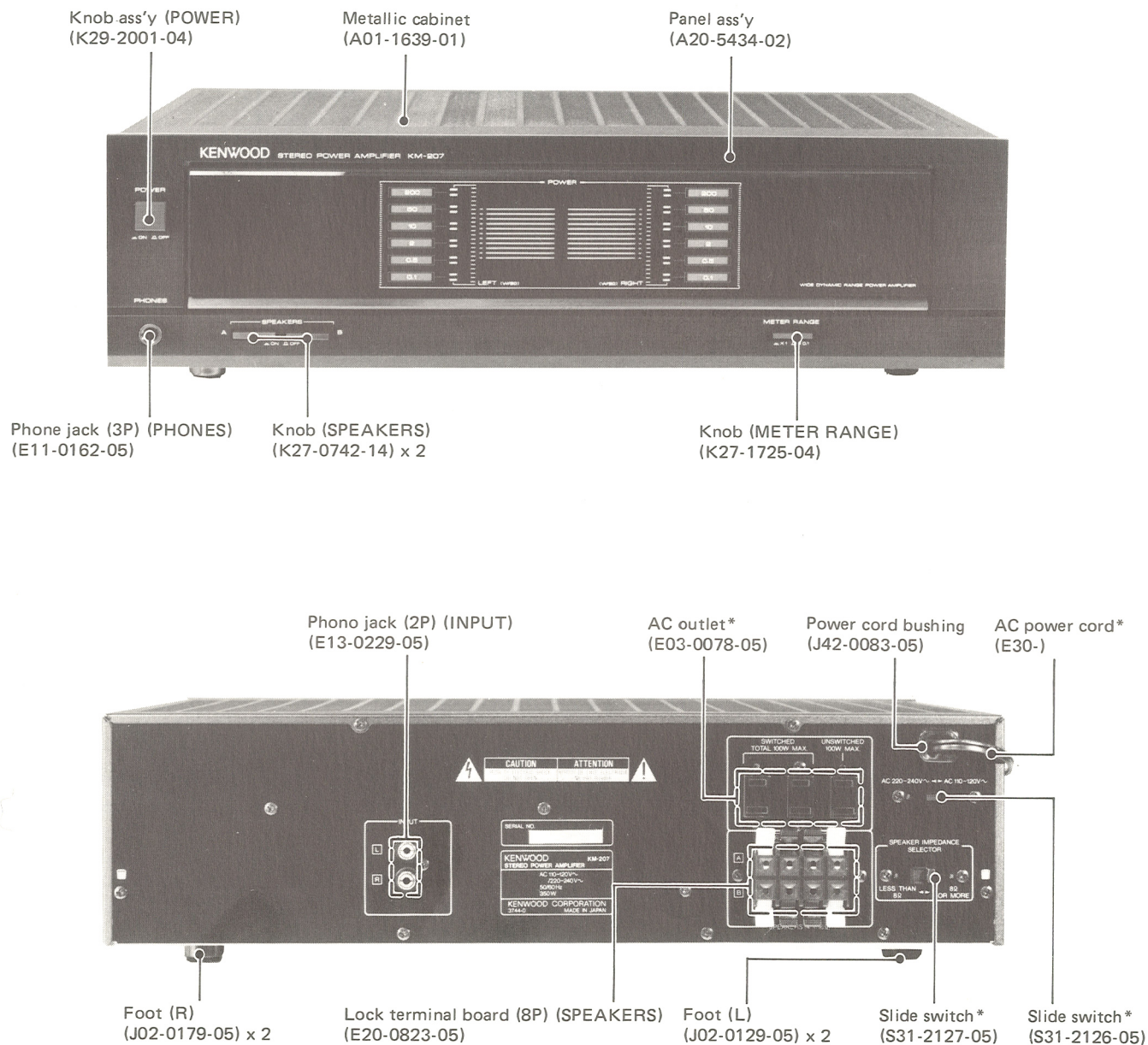
STEREO POWER AMPLIFIER

KM-207

SERVICE MANUAL

KENWOOD

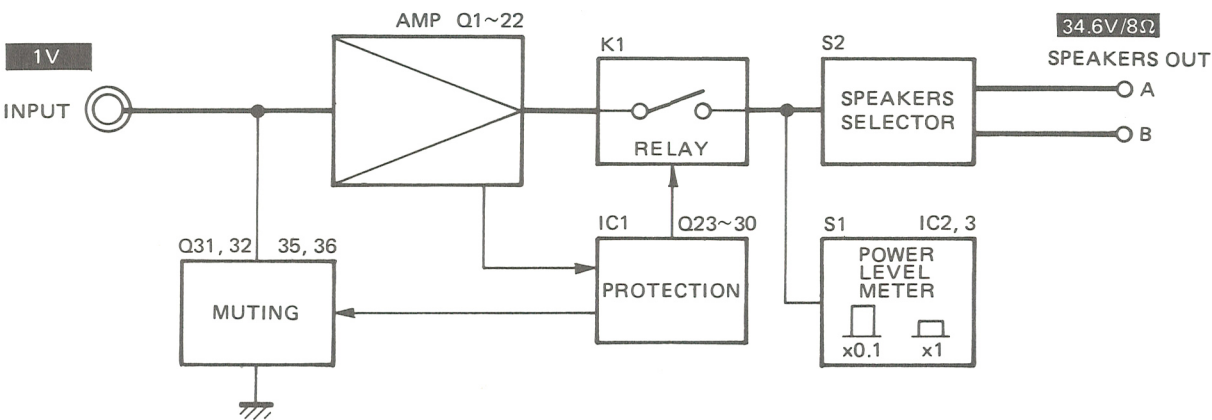
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B51-3501-00 (O) 1646



* Refer to parts list on page 15.

BLOCK DIAGRAM/CIRCUIT DESCRIPTION

BLOCK LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Description of Components

POWER AMPLIFIER UNIT (X07-2430-XX, X07-2460-XX)

Components	Application/Function	Operation/Condition/Compatibility
Q1 ~ 4	Initial stage differential amplifier	Low noise.
Q5 ~ 8	2nd stage differential amplifier	
Q9, 10	3rd stage amplifier	Class A cascade current amplifier.
Q11, 12	3rd stage amplifier	Class A cascade voltage amplifier.
Q13, 14	Bias temperature compensation	
Q15 ~ 18	Class B driver	
Q19 ~ 22	Power amplifier	
Q23 ~ 30	Current protection	
Q31, 32	Input muting	
Q33	Driver for realy driver IC	Current protection.
Q34	Constant voltage control	
Q35, 36	Muting driver	
Q37	AVR	For meter driver.
IC1	Relay driver IC	
IC2, 3	Meter driver	

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9~18mV	(a)

ABGLEICH

NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	VORSTARKER EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungs- messer über CP1 (L) CP2 (R) anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)

VOLTAGE CHECK TABLE

X07-2430-XX

X07-2460-XX

	B	C	E
Q1 - 4	—	17.7V	— 18V
Q5, 6	17.7V	80.3V	17V
Q7, 8	17.7V	81V	17V
Q9, 10	80.3V	77.8V	81V
Q11, 12	77.2V	1.2V	77.8V
Q13, 14	—	1.2V	— 1.2V
Q15, 16	—	81V	0.6V
Q17, 18	—	—81V	—0.6V
Q19, 20	—	81V	—
Q21, 22	—	—81V	—
Q23, 24	—	—	0V
Q27, 28	—	—	1.2V
Q29, 30	—	—	— 1.2V
Q33	81V	—	81V
Q34	24V	34V	23.4V
Q35	0V	—	0V
Q36	23V	Relay ON : — 12V Relay OFF : 23V	23V
Q37	—	—	14.7V

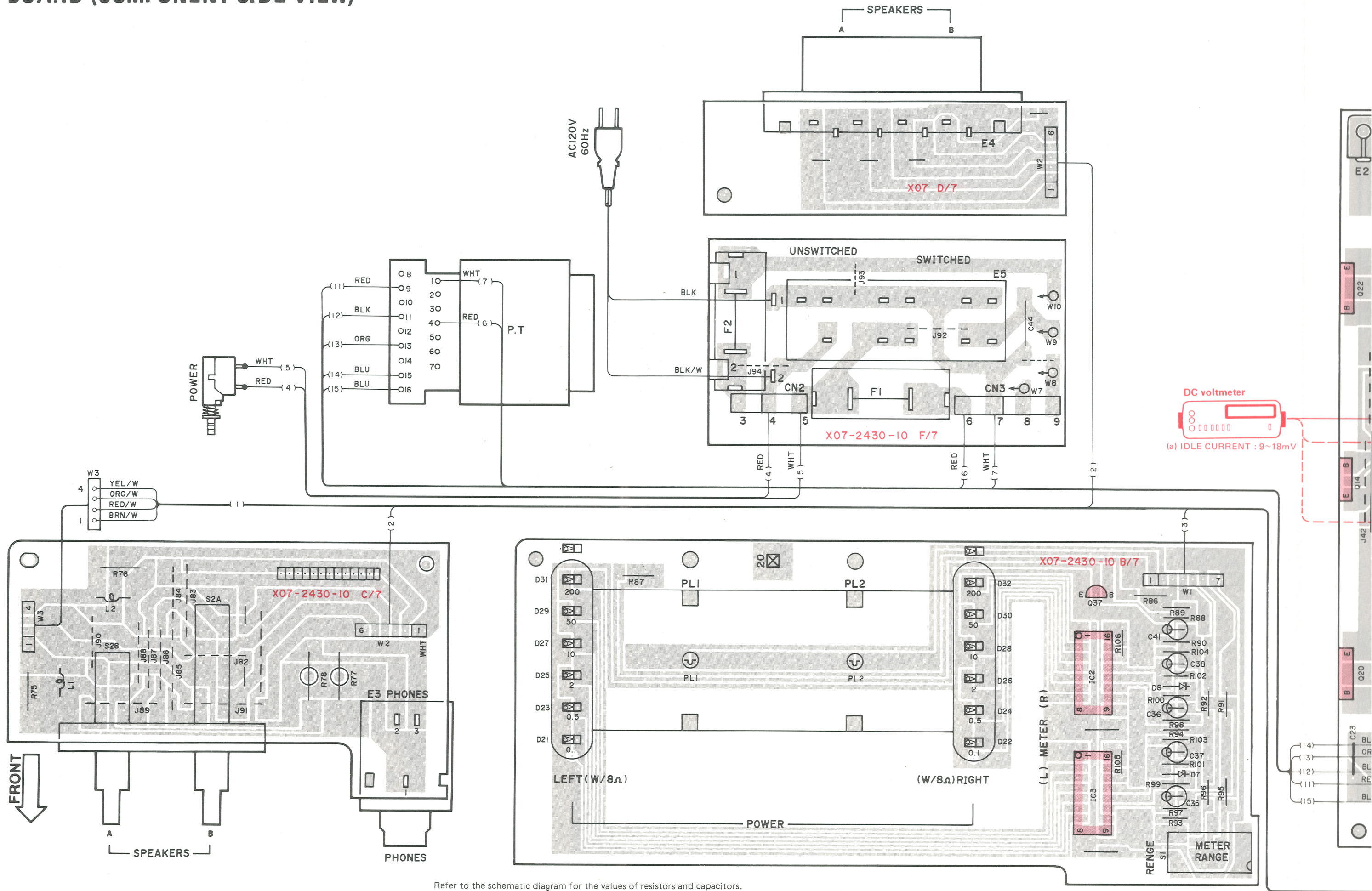
IC1

4	2.7V
5	0V
6	0.8V
7	2.2V
8	3.2V

IC2, 3

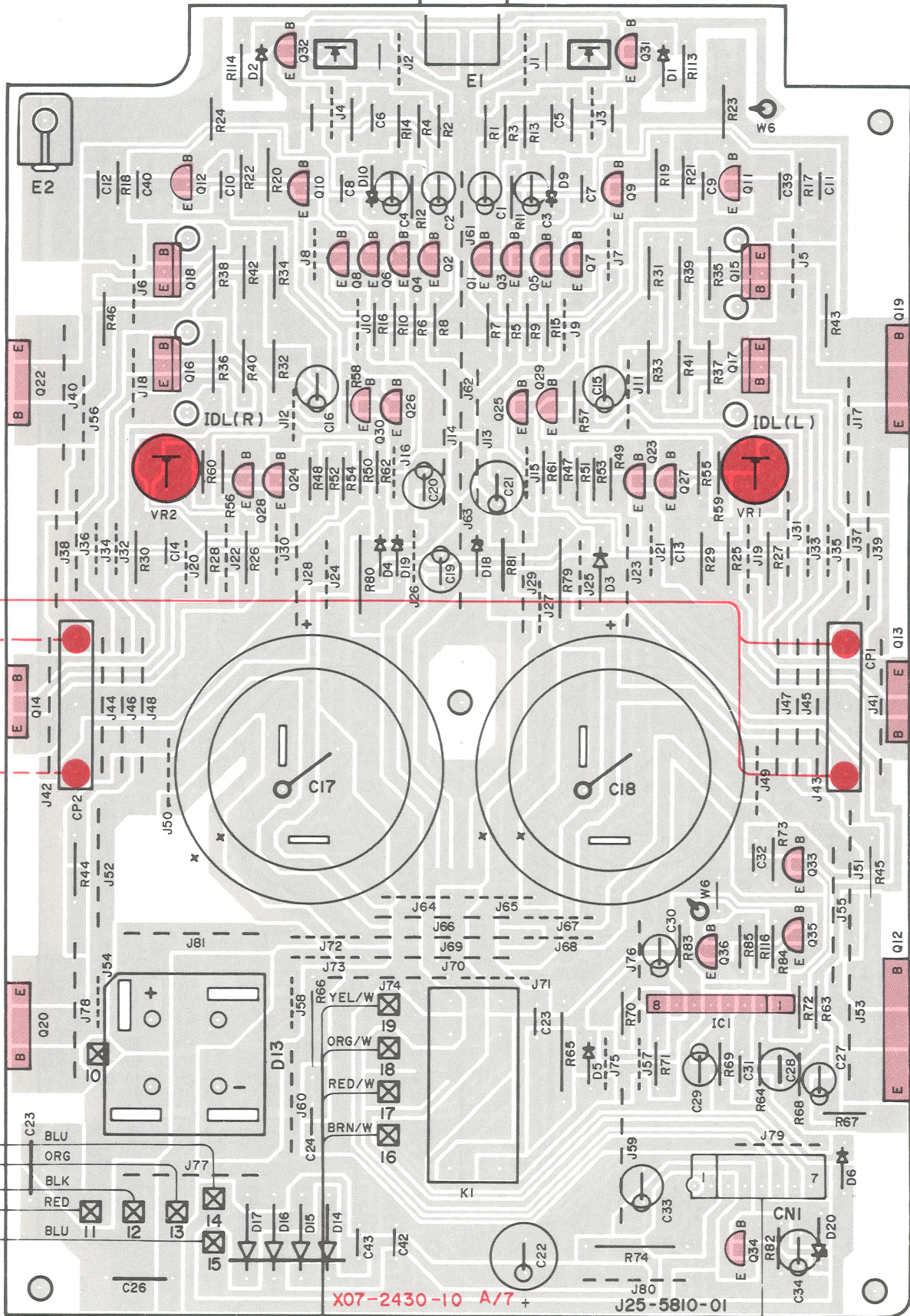
7	14.7V
8	0V
10	14.7V

PC BOARD (COMPONENT SIDE VIEW)



POWER AMPLIFIER UNIT (A/7)

INPUT



X07-2430-10 A/7 +

J25-5810-01

KM-207(K)

X07-2430-XX

X07-2460-XX

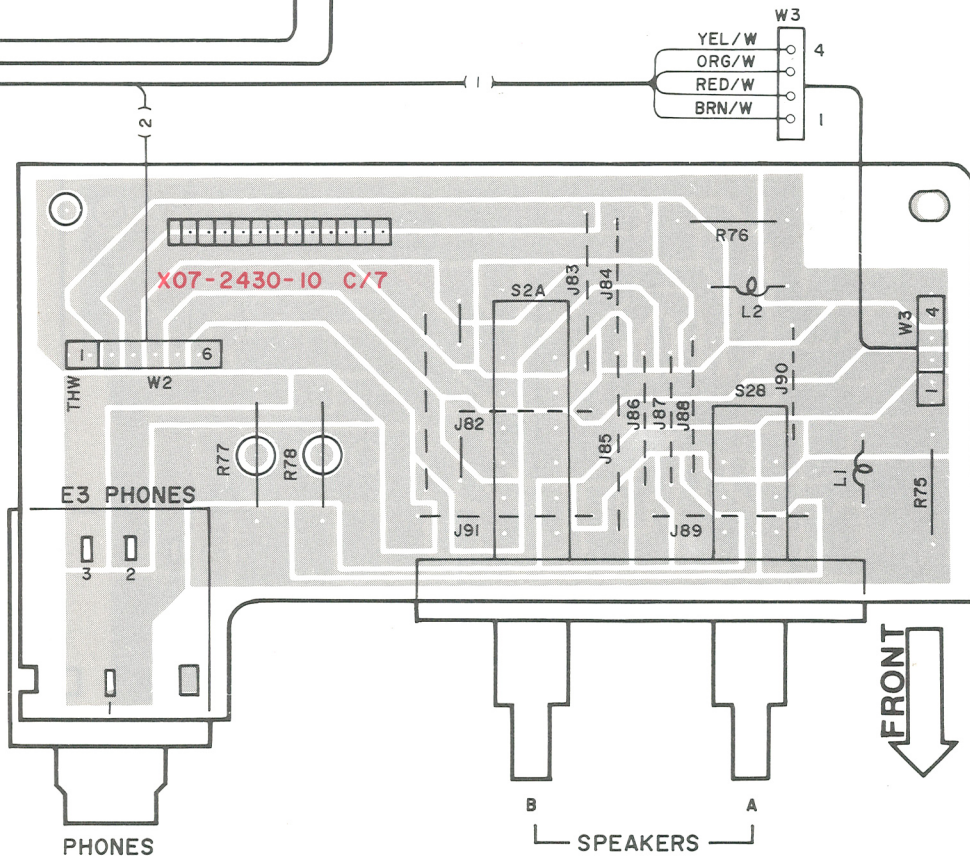
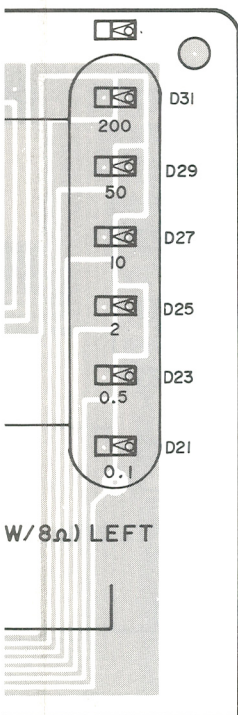
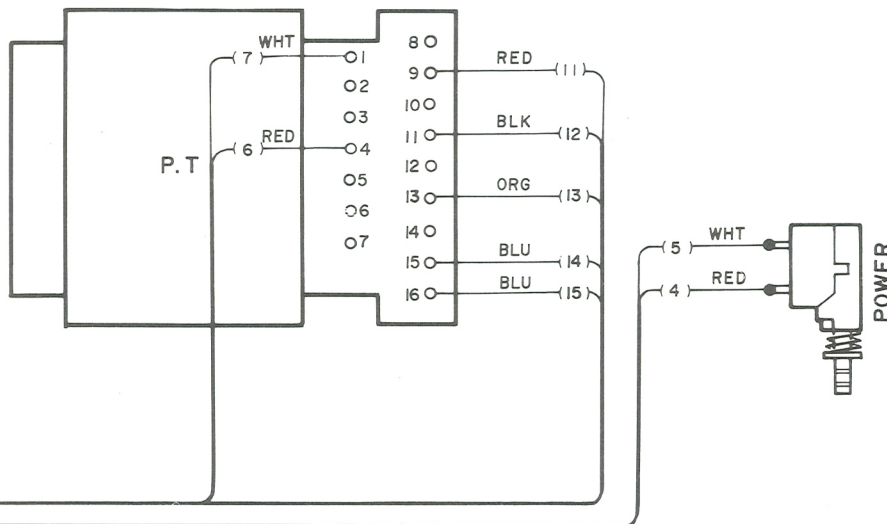
IC1

4	2.7V
5	0V
6	0.8V
7	2.2V
8	3.2V

IC2, 3

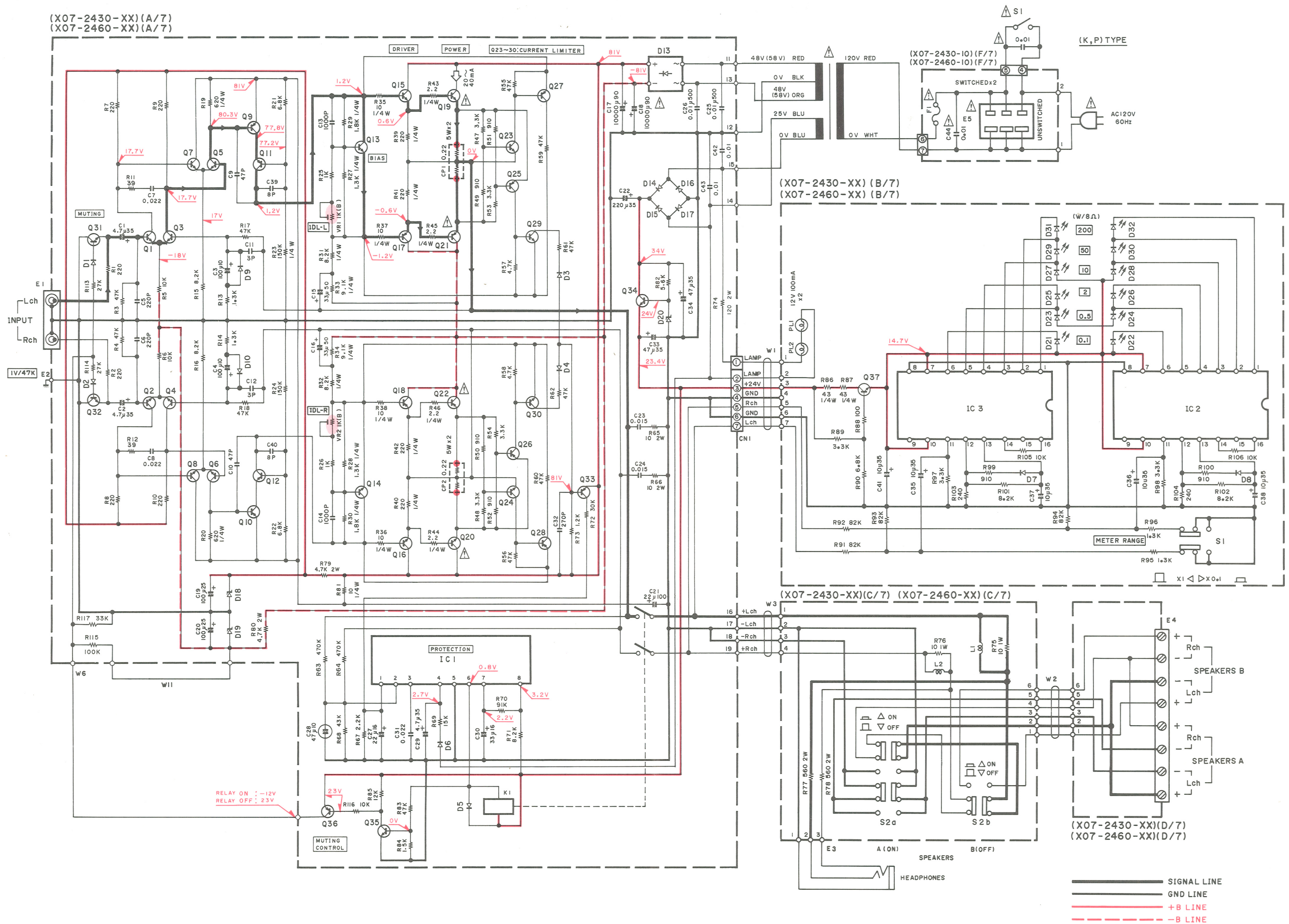
7	14.7V
8	0V
10	14.7V

	B	C	E
Q1 - 4	—	17.7V	— 18V
Q5, 6	17.7V	80.3V	17V
Q7, 8	17.7V	81V	17V
Q9, 10	80.3V	77.8V	81V
Q11, 12	77.2V	1.2V	77.8V
Q13, 14	—	1.2V	— 1.2V
Q15, 16	—	81V	0.6V
Q17, 18	—	— 81V	— 0.6V
Q19, 20	—	81V	—
Q21, 22	—	— 81V	—
Q23, 24	—	—	0V
Q27, 28	—	—	1.2V
Q29, 30	—	—	— 1.2V
Q33	81V	—	81V
Q34	24V	34V	23.4V
Q35	0V	—	0V
Q36	23V	Relay ON : — 12V Relay OFF : 23V	23V
Q37	—	—	14.7V

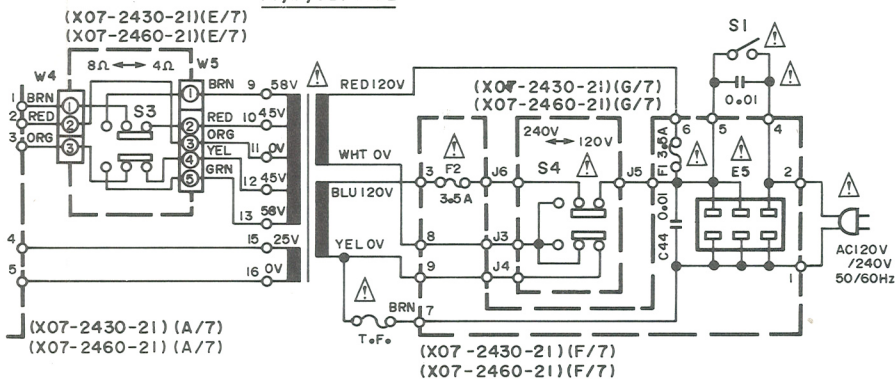


Refer to the schematic diagram for the values of resistors and capacitors.

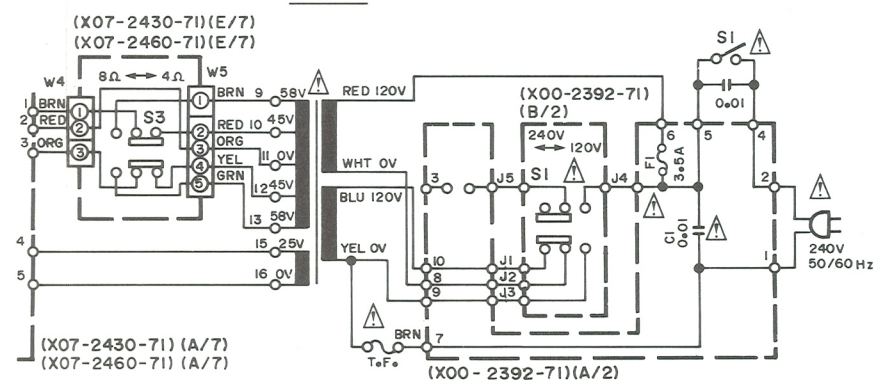
(X07-2430-XX) (A/7)
(X07-2460-XX) (A/7)



(U,M,UE) TYPE



(X)TYPE



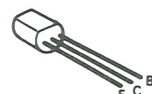
(X07-2430-XX) JAPAN MADE
(X07-2460-XX) SINGAPORE MADE

DESTINATION	Ref. No.	E/7	F/7	G/7	J92	J93,94
0-10	K	NO	YES	NO	YES	YES
0-21	U,M,UE	YES	YES	YES	YES	NO
0-71	X	YES	NO	NO	NO	NO

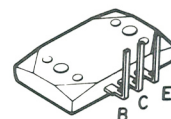
IC1 : μ PC1237HA
IC2,3 : AN6882
Q1~4 : 2SC1845(F,E)
Q5~8,23,24,35 : 2SC945(A)(Q,P)
or 2SC1740S(Q,R)
Q9,10,25~28,36 : 2SA733(A)(Q,P)
or 2SA933S(Q,R)
Q11,12 : 2SA1124(Q,R)
Q13,14 : 2SC3419(Y)
Q15,16 : 2SC3944A(Q,R)
Q17,18 : 2SA1535A(Q,R)
Q19,20 : 2SC2922LB
Q21,22 : 2SA1216LB
Q29,30 : 2SC2631(Q,R,S)
Q31,32 : 2SD1302(S,T)
Q33 : 2SA992(F,E)
Q34 : 2SC2590(Q,R)
Q37 : 2SC2003(L,K)

D1,2,7~10 : ISS133 or ISS176
D3~6 : ISS131 or ISS178
D13 : S15VB20
D14~17 : DSM1A1 or S5566B
D18,19 : RD18ES(B) or HZS18N(B)
D20 : RD24ES(B) or HZS24N(B)
D21~32 : B30-0431-05

2SA1124 2SC2003
2SA733(A) 2SC2631
2SA992 2SC945(A) 2SC2922LB
2SC1845 2SD1302



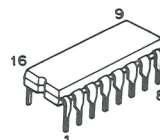
2SC2590



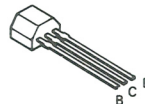
AN6882



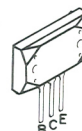
2SA933S
2SC1740S



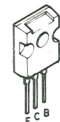
μ PC1237HA



2SA1216LB



2SC3419



2SA1535A
2SC3944A

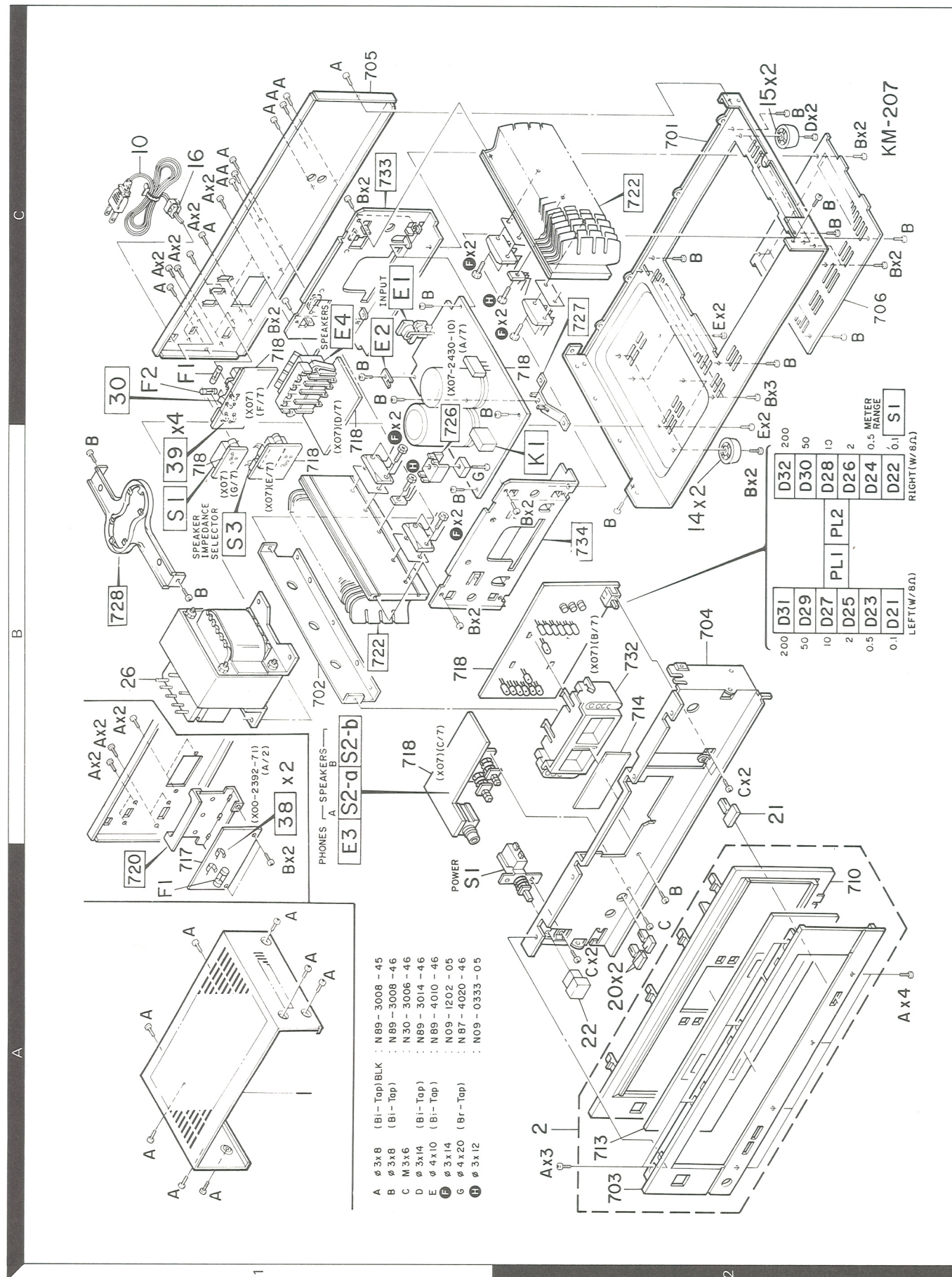


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KM-207
KENWOOD

EXPLODED VIEW



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KM-207						
1	1A	*	A01-1639-01	METALLIC CABINET		
2	2A	*	A20-5434-02	PANEL ASSY		
			B46-0092-03	WARRANTY CARD	K	
			B46-0094-03	WARRANTY CARD	UE	
			B46-0095-03	WARRANTY CARD	UE	
			B46-0096-13	WARRANTY CARD	X	
			B46-0121-03	WARRANTY CARD	P	
		*	B50-8670-00	INSTRUCTION MANUAL		
		*	B50-8671-00	INSTRUCTION MANUAL	PMX	
		*	B50-8672-00	INSTRUCTION MANUAL	M	
		*	B50-8673-00	INSTRUCTION MANUAL	M	
		*	B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
			B59-0092-00	SERVICE DIRECTORY	UE	
△ 10	1C		E30-0812-05	AC POWER CORD	UEM	
△ 10	1C		E30-0974-05	AC POWER CORD	KP	
△ 10	1C		E30-1341-05	AC POWER CORD	X	
△ F1	1C		F05-3522-05	FUSE (SEMKO) (250V T3.5A)	X	
△ F1	1C		F05-3523-05	FUSE (250V 3.5A)	UEM	
△ F1	1C		F05-7026-05	FUSE (UL) (250V 7A)	KP	
		*	H01-7792-04	ITEM CARTON CASE		
		*	H10-3645-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-3646-02	POLYSTYRENE FOAMED FIXTURE		
		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
14	2B		J02-0129-05	FOOT		
15	2C		J02-0179-05	FOOT		
16	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
20	2A		K27-0742-14	KNOB (BUTTON)		
21	2B		K27-1725-04	KNOB (BUTTON)		
22	2A		K29-2001-04	KNOB ASSY		
△ 26	1B		L01-7901-05	POWER TRANSFORMER	KP	
△ 26	1B		L01-7905-05	POWER TRANSFORMER	UEMX	
△ S1	1A		S40-1094-05	PUSH SWITCH (POWER TYPE)		
POWER SUPPLY UNIT (X00-2392-XX) -71: JAPAN MADE -72: SINGAPORE MADE (X TYPE)						
△ C1			C91-0647-05	CERAMIC 0.01UF P		
38	1B	*	E40-3054-05	PIN ASSY		
△			F29-0072-05	INSULATING COVER		
		*	J13-0054-05	FUSE CLIP		
		*	J21-3698-04	MOUNTING HARDWARE		
		*	J61-0307-05	WIRE BAND		
△ S1			S31-2126-05	SLIDE SWITCH (POWER TYPE)		
POWER AMPLIFIER UNIT (X07-2430-XX) : JAPAN MADE (X07-2460-XX) : SINGAPORE MADE -10: K,P -21: U,M,UE -71: X						
D21 -32	2B		B30-0431-05	LED(LN21CPH)		
PL1 ,2	2B		B30-1140-05	LAMP (12V,0.1A)		

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

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C1 ,2			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C3 ,4			CE04KW1A101M	ELECTR0 100UF 10WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CF92FV1H223J	MF 0.022UF J		
C9 ,10			CC45FSL1H470J	CERAMIC 47PF J		
C11 ,12			CC45FSL1H040C	CERAMIC 4.0PF C		
C13 ,14			CF92FV1H102J	MF 1000PF J		
C15 ,16			CE04KW1H330M	ELECTR0 33UF 50WV		
C17 ,18			C90-1394-05	ELECTR0 10000UF 90WV		
C19 ,20			CE04KW1E101M	ELECTR0 100UF 25WV		
C21			CE04KW2A220M	ELECTR0 22UF 100WV		
C22			CE04KW1V221M	ELECTR0 220UF 35WV		
C23 ,24			CF92FV1H153J	MF 0.015UF J		
C25 ,26			CK45FE2H103P	CERAMIC 0.010UF P		
C27			CE04KW1C220M	ELECTR0 22UF 16WV		
C28			C90-1334-05	NP-ELEC 47UF 10WV		
C29			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C30			CE04KW1C330M	ELECTR0 33UF 16WV		
C31			CF92FV1H223J	MF 0.022UF J		
C32			CC45FSL1H271J	CERAMIC 270PF J		
C33 ,34			CE04KW1V470M	ELECTR0 47UF 35WV		
C35 ,38			CE04KW1V100M	ELECTR0 10UF 35WV		
C39 ,40			CC45FSL1H080D	CERAMIC 8.0PF D		
C41			CE04KW1V100M	ELECTR0 10UF 35WV		
C42 ,43			CK45FF1H103Z	CERAMIC 0.010UF Z		
△ C44			C91-0971-05	FILM 0.01UF 250WV	KPUUEM	
△ 30	1C		E03-0078-05	AC OUTLET	KPUUEM	
E1	1C		E13-0229-05	PHONE JACK (2P)	KPUUEM	
E2	1C		E23-0077-05	TERMINAL	UEM	
E2	1C		E23-0149-05	TERMINAL		
E3	1A		E11-0162-05	PHONE JACK (3P)		
E4	1C		E20-0823-05	LOCK TERMINAL BOARD(8P)		
39	1B		J13-0041-05	FUSE CLIP	KPUUEM	
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
			N09-0333-05	TAPPING SCREW (3X12,+ロツカクサ)		
			N09-1202-05	TAPPING SCREW (3X14,+ロツカクサ)		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R19 ,20			RD14AB2E621J	FL-PROOF RD 620 J 1/4W		
R25			RD14AB2E102J	FL-PROOF RD 1.0K J 1/4W		
R27 ,28			RD14AB2E132J	FL-PROOF RD 1.3K J 1/4W		
R29 ,30			RD14AB2E182J	FL-PROOF RD 1.8K J 1/4W		
R31 ,32			RD14AB2E822J	FL-PROOF RD 8.2K J 1/4W		
R33 ,34			RD14AB2E912J	FL-PROOF RD 9.1K J 1/4W		
R35 ,38			RD14AB2E100J	FL-PROOF RD 10 J 1/4W		
R39 ,42			RD14AB2E221J	FL-PROOF RD 220 J 1/4W		
R43 ,46			RD14AB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
R65			RS14DB3D100J	FL-PROOF RS 10 J 2W		
R66			RS14KB3D100J	FL-PROOF RS 10 J 2W		
R74			RS14DB3D121J	FL-PROOF RS 120 J 2W		
R75 ,76			RS14DB3A100J	FL-PROOF RS 10 J 1W		
R77 ,78			RS14DB3D561J	FL-PROOF RS 560 J 2W		

E: Scandinavia & Europe K: USA

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R79 ,80 R81 VR1 ,2			RS14DB3D472J RD14GB2E100J R12-1083-05	FL-PROOF RS 4.7K J 2W FL-PROOF RD 10 J 1/4W TRIMMING POT. (1KB)IDL-L,R		
K1 S1 S2 S3 S4	2B 1B 1B		S51-2078-05 S40-2351-05 S42-2163-05 S31-2127-05 S31-2126-05	MAGNETIC RELAY PUSH SWITCH MULTIPLE PUSH SWITCH SLIDE SWITCH (POWER TYPE) SLIDE SWITCH (POWER TYPE)	UUEMX UUEM	
D1 ,2 D1 ,2 D3 -6 D3 -6 D7 -10			1SS133 1SS176 1SS131 1SS178 1SS133	DIODE DIODE DIODE DIODE DIODE		
D7 -10 D13 D14 -17 D14 -17 D18 ,19			1SS176 S15VB20 DSM1A1 S5566B HZS18N(B)	DIODE DIODE DIODE DIODE ZENER DIODE		
D18 ,19 D20 D20 IC1 IC2 ,3			RD18ES(B) HZS24N(B) RD24ES(B) UPC1237HA AN6882	ZENER DIODE ZENER DIODE ZENER DIODE IC(POWER AMP) IC(7PT LED LEVEL METER DRIVER)		
Q1 -4 Q5 -8 Q5 -8 Q9 ,10 Q9 ,10			2SC1845(F,E) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q11 ,12 Q13 ,14 Q15 ,16 Q17 ,18 Q19 ,20			2SA1124(Q,R) 2SC3419(Y) 2SC3944A(Q,R) 2SA1535A(Q,R) 2SC2922LB	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q21 ,22 Q23 ,24 Q23 ,24 Q25 -28 Q25 -28			2SA1216LB 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q29 ,30 Q31 ,32 Q33 Q34 Q35			2SC2631(Q,R,S) 2SD1302(S,T) 2SA992(F,E) 2SC2590(Q,R) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q35 Q36 Q36 Q37			2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada
 U: PX(Far East, Hawaii) T: England M: Other Areas
 UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

SPECIFICATIONS

Rated Power Output

150 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both channels driven

(8 ohms, 1 kHz).....155 W + 155 W

Music Power

(8 ohms)310 W + 310 W

Total Harmonic Distortion

20 Hz to 20,000 Hz0.015% at 1/2 rated power
into 8 ohms

1 kHz0.002% at 1/2 rated power
into 8 ohms

Inter Modulation Distortion

(60 Hz:7 kHz = 4:1).....0.002% at rated power into
8 ohms

Frequency Response5 Hz to 200 kHz, +0 dB,
-3 dB

Power Bandwidth

(0.2 % T.H.D., 8 ohms)10 Hz to 50 kHz

Signal-to-Noise Ratio (IHF-A)120 dB (MAIN IN)

Damping FactorMore than 35 at 50 Hz

General

Power Consumption5 A (USA and Canada)
350 W (Others)

AC OutletsSwitched 2, Unswitched 1
(Except some area)

DimensionsW 420 mm (16-9/16")
H 123 mm (4-13/16")
D 269 mm (10-9/16")

Weight (Net)8.5 kg (18.7 lb)

Note :

We follow a policy of continuous advancements in developments.
For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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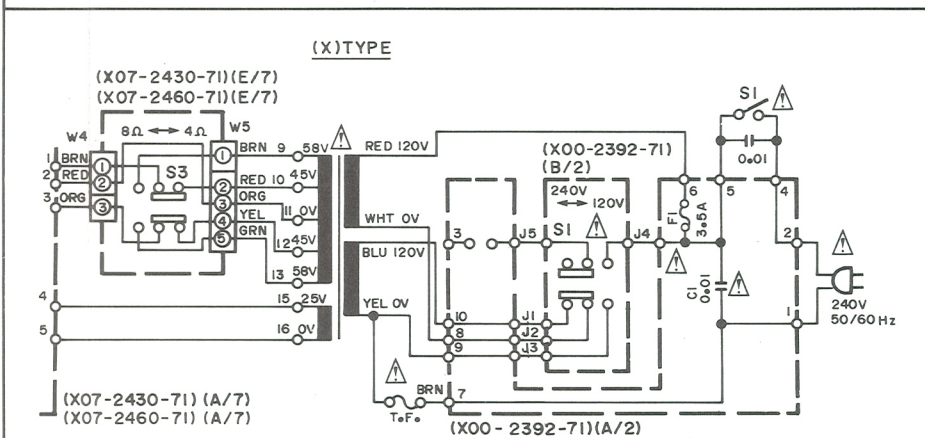
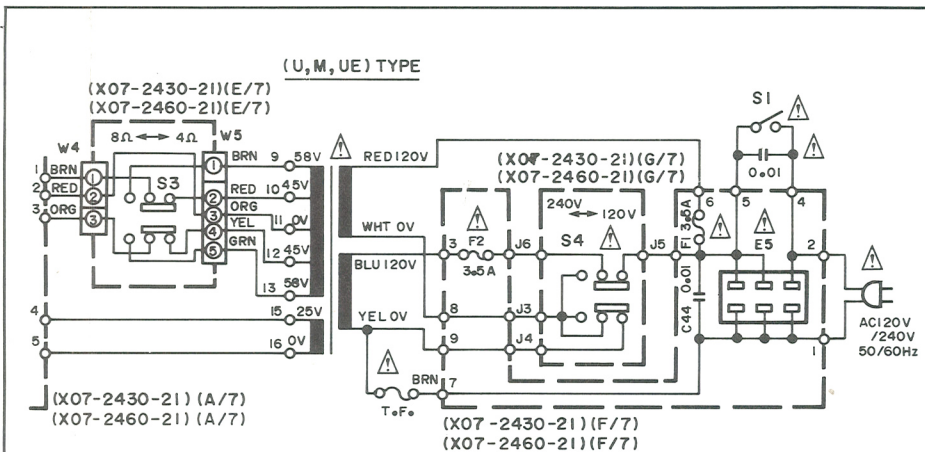
17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

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4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

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(X07-2430-XX) JAPAN MADE
(X07-2460-XX) SINGAPORE MADE

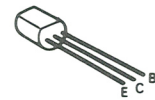
Ref. No.		E/7	F/7	G/7	J92	J93,94
DESTINATION						
0-10	K	NO	YES	NO	YES	YES
0-21	U, M, UE	YES	YES	YES	YES	NO
0-71	X	YES	NO	NO	NO	NO

IC1 : μ PC1237HA
IC2,3 : AN6882

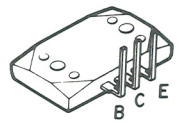
Q1~4 : 2SC1845(F, E)
Q5~8, 23, 24, 35 : 2SC945(A)(Q, P)
or 2SC1740S(Q, R)
Q9, 10, 25~28, 36 : 2SA733(A)(Q, P)
or 2SA933S(Q, R)
Q11, 12 : 2SA1124(Q, R)
Q13, 14 : 2SC3419(Y)
Q15, 16 : 2SC3944A(Q, R)
Q17, 18 : 2SA1535A(Q, R)
Q19, 20 : 2SC2922LB
Q21, 22 : 2SA1216LB
Q29, 30 : 2SC2631(Q, R, S)
Q31, 32 : 2SD1302(S, T)
Q33 : 2SA992(F, E)
Q34 : 2SC2590(Q, R)
Q37 : 2SC2003(L, K)

D1, 2, 7~10 : ISS133 or ISS176
D3~6 : ISS131 or ISS178
D13 : S15VB20
D14~17 : DSM1A1 or S5566B
D18, 19 : RD18ES(B) or HZS18N(B)
D20 : RD24ES(B) or HZS24N(B)
D21~32 : B30-0431-05

2SA1124 2SC2003
2SA733(A) 2SC2631
2SA992 2SC945(A) 2SC2922LB
2SC1845 2SD1302



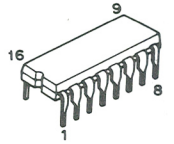
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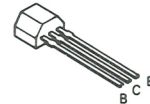
AN6882



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2SC1740S



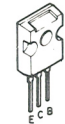
μ PC1237HA



2SA1216LB



2SC3419



2SA1535A
2SC3944A



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KM-207
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